

Notice of Allowability

Application No.

09/836,172

Applicant(s)

INADA, TAKESHI

Examiner

Art Unit

Hosuk Song

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 12/21/2004.
2. ☒ The allowed claim(s) is/are 3-5, 7-39, 41 and 42.
3. ☒ The drawings filed on 4/18/2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 09836172.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Hosuk Song

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Jensen on 1/25/2005.

Claim 39 amend as follows:

An encryption-decryption apparatus comprising:
a transmitter and a receiver arranged so as to be able to communicate with one another across a network;

an encryptor in the transmitter constructed so as to perform hardware encryption on input data to generate encrypted data can be sent across the network to the receiver; and

a decryptor in the receiver constructed so as to perform hardware decryption on the encrypted data to generate output data;

wherein each of the encryptor and the decryptor is constructed so that the hardware encryption and decryption, respectively, can be selectively reconfigured using circuit data serving as a secret key; and the encryptor is a field programmable gate array; wherein the encryptor is constructed such that once the encryptor is configured using the circuit data serving as the secret key, the encryptor can perform the hardware encryption as configured without further input of the circuit data until the secret key is replaced with a different secret key.

Claim 42 amend as follows:

The encryption-decryption apparatus of claim ~~[[40]]~~39, wherein the transmitter further comprises a ROM containing the circuit data.

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Cancel claims 41,43.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Claims 3-5,7-39,41-42 are allowed

Claim 3: Prior art of record does not teach transmitting apparatus includes a variable configuration processing circuit for encryption, and a ROM to output circuit data serving as a secret key to the variable configuration processing circuit, and the receiving apparatus including a variable configuration processing circuit for decryption, and a ROM to output circuit data serving as a secret key to the variable configuration processing circuit, and wherein the variable configuration processing circuit is a Field Programmable Gate Array.

Claim 39: Prior art of record does not teach each of the encryptor and the decryptor is constructed so that the hardware encryption and decryption, respectively, can be selectively reconfigured using circuit data serving as a secret key; and the encryptor is a field programmable gate array; wherein the encryptor is constructed such that once the encryptor is configured using the circuit data serving as the secret key, the encryptor can perform the hardware encryption as configured without further input of the circuit data until the secret key is replaced with a different secret key.

Claims 4-5,7-8,41-42 are allowed because of dependency.

Claims 9-38 were previously allowed.

Conclusion

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 571-272-3857. The examiner can normally be reached on Tue-Fri from 5:30 am – 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 703-305-4393. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HS

A handwritten signature in black ink, appearing to read 'H. Song', followed by a stylized flourish.

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